

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/749,522.

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 01/13/2005

PATENT APPLICATION: US/10/749,522

TIME: 12:17:14

Input Set : N:\Crf3\RULE60\10749522.raw.txt

Output Set: N:\CRF4\01132005\J749522.raw

```

1 <110> APPLICANT: SOLOMON, Beka
2   HANAN, Eilat
3 <120> TITLE OF INVENTION: AGENTS AND COMPOSITIONS AND METHODS UTILIZING SAME USEFUL IN
DIAGNOSING
4   AND/OR TREATING OR PREVENTING PLAQUE FORMING DISEASES
5 <130> FILE REFERENCE: SOLOMON=2B
6 <140> CURRENT APPLICATION NUMBER: US/10/749,522
7 <141> CURRENT FILING DATE: 2004-01-02
8 <150> PRIOR APPLICATION NUMBER: US/09/629,971
9 <151> PRIOR FILING DATE: 2000-07-31
10 <150> PRIOR APPLICATION NUMBER: US 09/473,653
11 <151> PRIOR FILING DATE: 1999-12-29
12 <150> PRIOR APPLICATION NUMBER: US 60/152,417
13 <151> PRIOR FILING DATE: 1999-09-03
14 <160> NUMBER OF SEQ ID NOS: 29
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 4
19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial
21 <220> FEATURE:
22 <223> OTHER INFORMATION: synthetic peptide
23 <400> SEQUENCE: 1
24   Glu Phe Arg His
25   1
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 15
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial
31 <220> FEATURE:
32 <223> OTHER INFORMATION: synthetic peptide
33 <400> SEQUENCE: 2
34   Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
35   1           5           10           15
37 <210> SEQ ID NO: 3
38 <211> LENGTH: 43
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial
41 <220> FEATURE:
42 <223> OTHER INFORMATION: synthetic peptide
43 <400> SEQUENCE: 3
44   Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
45   1           5           10           15
46   Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile

```

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47          20          25          30
48      Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
49          35          40
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 4
53 <212> TYPE: PRT
54 <213> ORGANISM: Artificial
55 <220> FEATURE:
56 <223> OTHER INFORMATION: synthetic peptide
57 <400> SEQUENCE: 4
58      Trp Val Leu Asp
59      1
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 717
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens
65 <220> FEATURE:
66 <221> NAME/KEY: CDS
67 <222> LOCATION: (1)..(717)
68 <400> SEQUENCE: 5
69      cag gtc aaa ctg cag gag tca ggg gct gag ctg gtg agg cct ggg gtc      48
70      Gln Val Lys Leu Gln Glu Ser Gly Ala Glu Leu Val Arg Pro Gly Val
71      1          5          10          15
72      tca gtg aag att tcc tgc aag ggt tct ggc tac aca ttc act gat tat      96
73      Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
74          20          25          30
75      gct atg cac tgg gtg aag cag agt cat gca aag agt cta gag tgg att      144
76      Ala Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
77          35          40          45
78      gga gtt att agt act tac tat ggt gat gct agc tac aac cag aag ttc      192
79      Gly Val Ile Ser Thr Tyr Tyr Gly Asp Ala Ser Tyr Asn Gln Lys Phe
80          50          55          60
81      aag ggc aag gcc aca atg act gta gac aaa tcc tcc agc aca gcc tat      240
82      Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
83      65          70          75          80
84      atg gaa ctt gcc aga ctg aca tct gag gat tct gcc atc tat tac tgt      288
85      Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
86          85          90          95
87      gca aga ggg gct act atg tcc tac ttt gac tac tgg ggc caa gtg acc      336
88      Ala Arg Gly Ala Thr Met Ser Tyr Phe Asp Tyr Trp Gly Gln Val Thr
89          100          105          110
90      acg gtc acc gtc tcc tca ggt gga ggc ggt tca ggc gga gtt ggc tct      384
91      Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Val Gly Ser
92          115          120          125
93      ggc ggt ggc gga tcg gac atc gag ctc act cag tct cca gca atc atg      432
94      Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met
95          130          135          140
96      tct gca tct cca ggg gag aag gtc acc atg acc tgc agt gcc agc tca      480
97      Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser

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98      145      150      155      160
99      agt ata agt tac atg cac tgg tat cag cag aag cca ggc acc tcc ccc      528
100      Ser Ile Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Thr Ser Pro
101      165      170      175
102      aaa aga tgg att tat gac aca tcc aaa ctg gct tct gga gtc cct gct      576
103      Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala
104      180      185      190
105      cgc ttc agt ggc agt ggg tct ggg acc tct tat tct ctc aca atc agc      624
106      Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser
107      195      200      205
108      agc atg gag gct gaa gat gct gcc act tat tac tgc cat cag cgg agt      672
109      Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Arg Ser
110      210      215      220
111      agt tac cca ttc acg ttc gga ggg ggg gcc aag ctg gaa ata aaa      717
112      Ser Tyr Pro Phe Thr Phe Gly Gly Gly Ala Lys Leu Glu Ile Lys
113      225      230      235
115 <210> SEQ ID NO: 6
116 <211> LENGTH: 239
117 <212> TYPE: PRT
118 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 6
120      Gln Val Lys Leu Gln Glu Ser Gly Ala Glu Leu Val Arg Pro Gly Val
121      1      5      10      15
122      Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
123      20      25      30
124      Ala Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
125      35      40      45
126      Gly Val Ile Ser Thr Tyr Tyr Gly Asp Ala Ser Tyr Asn Gln Lys Phe
127      50      55      60
128      Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
129      65      70      75      80
130      Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
131      85      90      95
132      Ala Arg Gly Ala Thr Met Ser Tyr Phe Asp Tyr Trp Gly Gln Val Thr
133      100      105      110
134      Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Val Gly Ser
135      115      120      125
136      Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met
137      130      135      140
138      Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser
139      145      150      155      160
140      Ser Ile Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Thr Ser Pro
141      165      170      175
142      Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala
143      180      185      190
144      Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser
145      195      200      205
146      Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Arg Ser
147      210      215      220

```

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Output Set: N:\CRF4\01132005\J749522.raw

```

148      Ser Tyr Pro Phe Thr Phe Gly Gly Gly Ala Lys Leu Glu Ile Lys
149      225                      230                      235
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 6
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: synthetic peptide
157 <400> SEQUENCE: 7
158      Tyr Tyr Glu Phe Arg His
159      1                      5
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 15
163 <212> TYPE: PRT
164 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: synthetic peptide
167 <400> SEQUENCE: 8
168      Val His Glu Pro His Glu Phe Arg His Val Ala Leu Asn Pro Val
169      1                      5                      10                      15
171 <210> SEQ ID NO: 9
172 <211> LENGTH: 3
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: synthetic peptide
177 <400> SEQUENCE: 9
178      Lys Leu His
179      1
181 <210> SEQ ID NO: 10
182 <211> LENGTH: 45
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: primer
W--> 187 <221> NAME/KEY: misc_feature
188 <223> OTHER INFORMATION: "n" at position 17 is unknown
W--> 189 <400> 10
W--> 190      cccccctccg aacgtsnatg ggtaactcga tcgctgatgg cagta      45
192 <210> SEQ ID NO: 11
193 <211> LENGTH: 24
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial
196 <220> FEATURE:
197 <223> OTHER INFORMATION: primer
198 <400> SEQUENCE: 11
199      atctatgcgg ccagccggc catg      24
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 38

```

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```

203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
207 <400> SEQUENCE: 12
208      gtggtgctga gtggatccta tactacactg ccaccggg      38
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 58
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial
214 <220> FEATURE:
215 <223> OTHER INFORMATION: primer
216 <400> SEQUENCE: 13
217      agctccgatg ctgaattcgg tgatagcggc tacgaagtgc atcatcagaa acctgcag      58
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 52
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: primer
225 <400> SEQUENCE: 14
226      ggtttctgat gatgcacttc gtagccgcta tcatgacgaa attcagcatc gg      52
228 <210> SEQ ID NO: 15
229 <211> LENGTH: 9
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: synthetic peptide
234 <400> SEQUENCE: 15
235      His Gln Arg Ser Ser Tyr Pro Cys Thr
236      1          5
238 <210> SEQ ID NO: 16
239 <211> LENGTH: 9
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <223> OTHER INFORMATION: synthetic peptide
244 <400> SEQUENCE: 16
245      His Gln Arg Ser Ser Tyr Pro Cys Thr
246      1          5
248 <210> SEQ ID NO: 17
249 <211> LENGTH: 9
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: synthetic peptide
254 <400> SEQUENCE: 17
255      His Gln Arg Ser Ser Tyr Pro Phe Thr
256      1          5

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/13/2005  
PATENT APPLICATION: US/10/749,522      TIME: 12:17:15

Input Set : N:\Cr3\RULE60\10749522.raw.txt  
Output Set: N:\CRF4\01132005\J749522.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; N Pos. 17

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

## VARIABLE LOCATION SUMMARY

DATE: 01/13/2005

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Input Set : N:\Crf3\RULE60\10749522.raw.txt

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Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:10; N Pos. 17



**VERIFICATION SUMMARY**

DATE: 01/13/2005

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Input Set : N:\Crf3\RULE60\10749522.raw.txt

Output Set: N:\CRF4\01132005\J749522.raw

L:187 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:189 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:190 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:10  
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0